

What is claimed is:

1. An oscillation type of micro gyro sensor equipped with two vibrators, comprising:

5 a monitoring electrode monitoring a vibration of one of the two vibrators to output signal indicative of the monitored vibration;

a signal processor configured to drive the two vibrators in mutually opposite phases, by using the signal from said monitoring electrode; and

10 a driving electrode, attached to both the two vibrators, driving both the vibrators on the basis of the two driving signals.

2. The gyro sensor according to claim 1, wherein

each of said vibrators has a plurality of movable electrodes protruding from both sides of each vibrator itself in a specified direction and

15 said monitoring electrode is composed of a pair of monitoring electrodes disposed to be opposed, with a gap, to the movable electrodes on both sides of at least one of the two vibrators respectively in the specified direction, the gap forming a capacitance a change of which 20 being reflected into the signal from the monitoring electrodes,

wherein only the pair of monitoring electrodes disposed to be opposed to the at least one of the two vibrators are electrically connected to the signal processor to send the signal to the signal processor.

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3. The gyro sensor according to claim 2, wherein the other one 30 of the two vibrators has a second pair of monitoring electrodes on both sides of the vibrator in the specified direction, electrical connection being made from the second pair of monitoring electrode to the signal processor.

35 4. The gyro sensor according to claim 3, wherein said signal processor is provided with a differential amplifier receiving the signal from each of the pair of monitoring electrodes, a self-energizing oscillator self-oscillating based on a signal outputted from the differential amplifier, and an inverter inverting an oscillation signal

outputted from the self-energizing oscillator into an inverted signal serving as one of the two driving signal, the other of the two driving signals being composed of the oscillation signal itself outputted from the self-energizing oscillator.